

FIG. 1

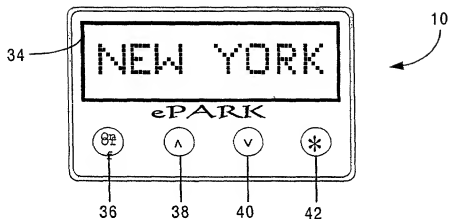


FIG. 2

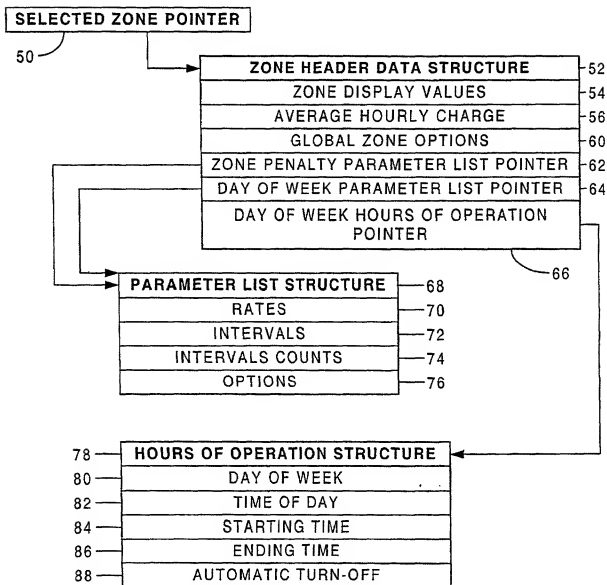


FIG. 3

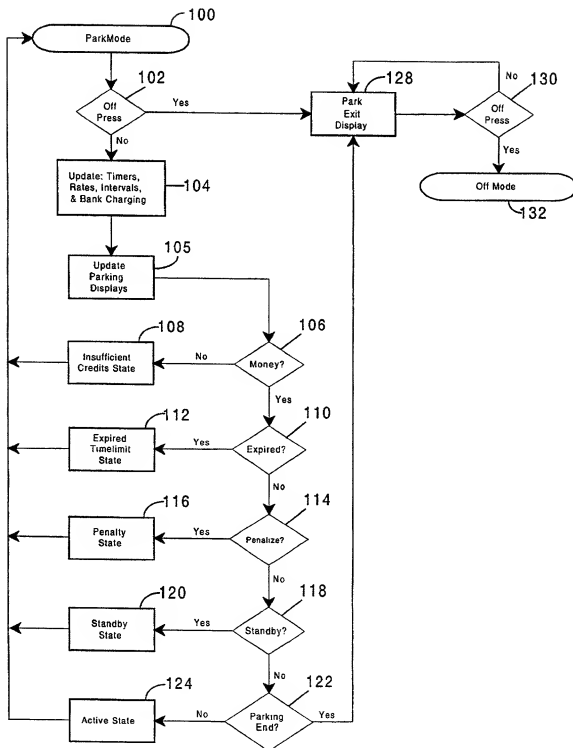


FIG. 4

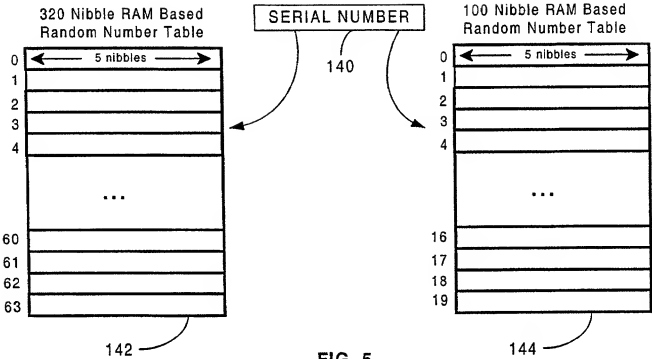


FIG. 5

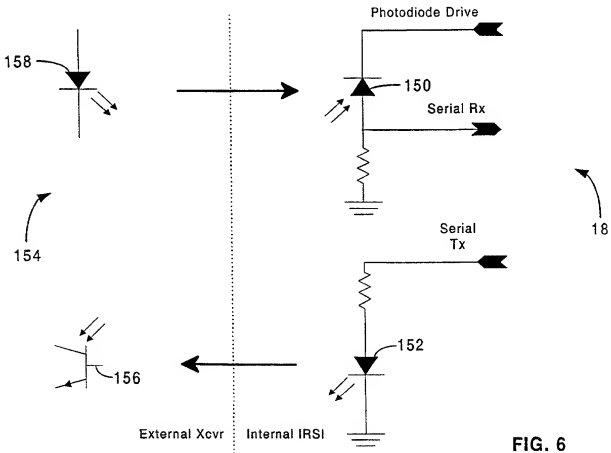


FIG. 6

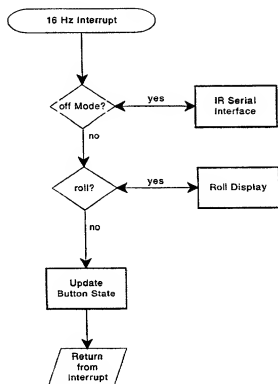


FIG. 7

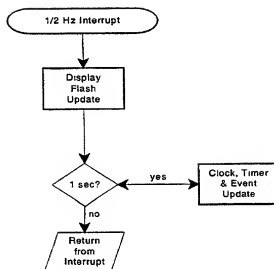
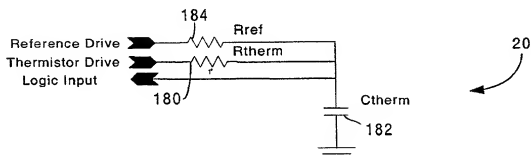


FIG. 9



where,

T1 is the time for Ctherm to charge from 0 to a logic high thru the reference resistor Rref

T2 is the time for Ctherm to charge from 0 to a logic high thru the thermistor Rtherm

$$R_{therm} = (T2/T1) * R_{ref}$$

Temperature = table lookup(Rtherm)

FIG. 8

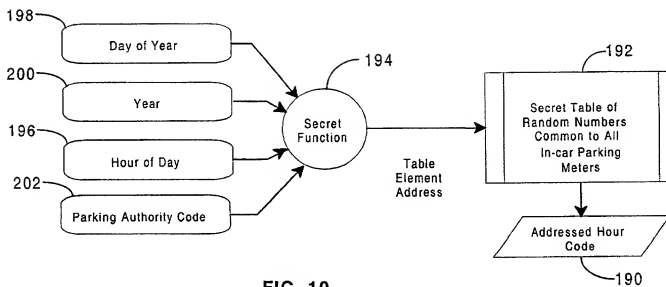


FIG. 10

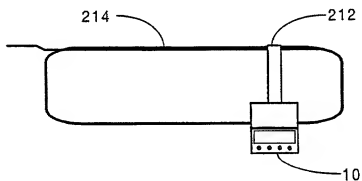


FIG. 11A

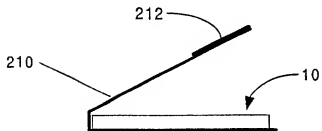


FIG. 11B

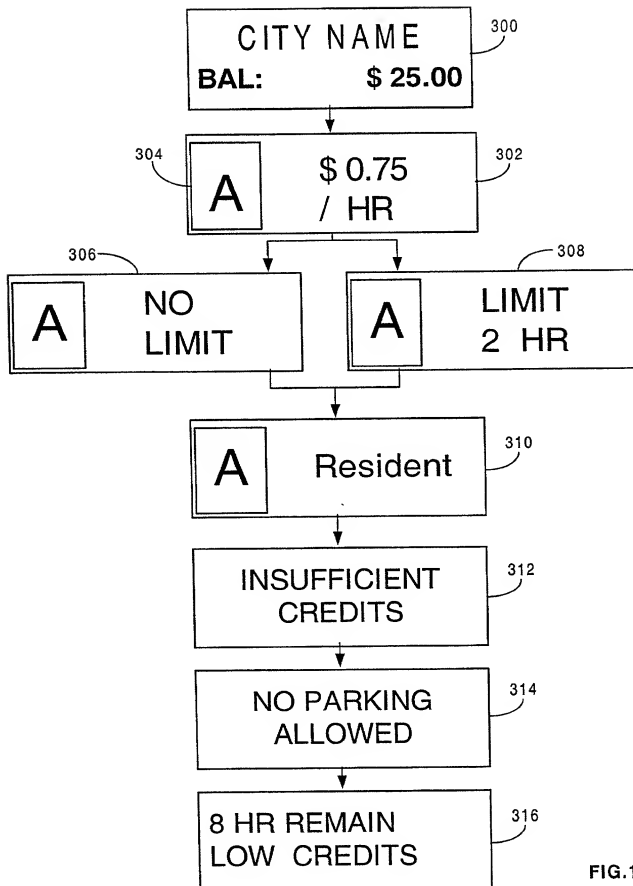


FIG. 12

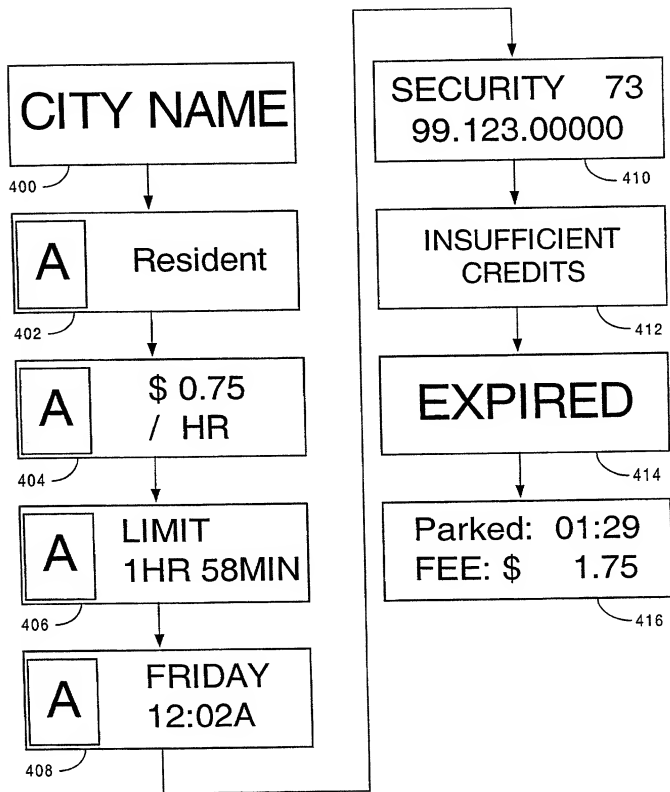


FIG. 13